

Fig. 1

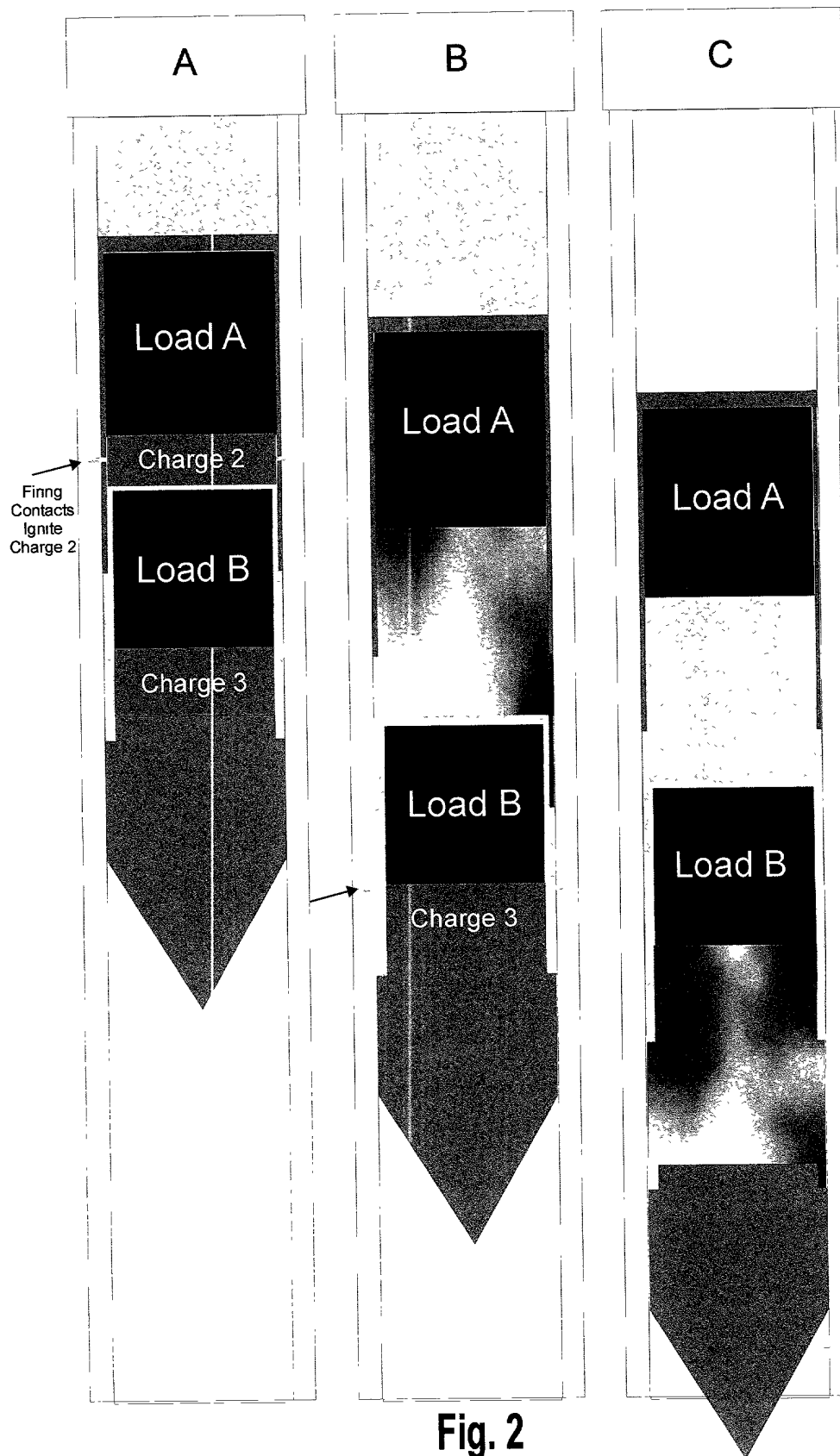


Fig. 2

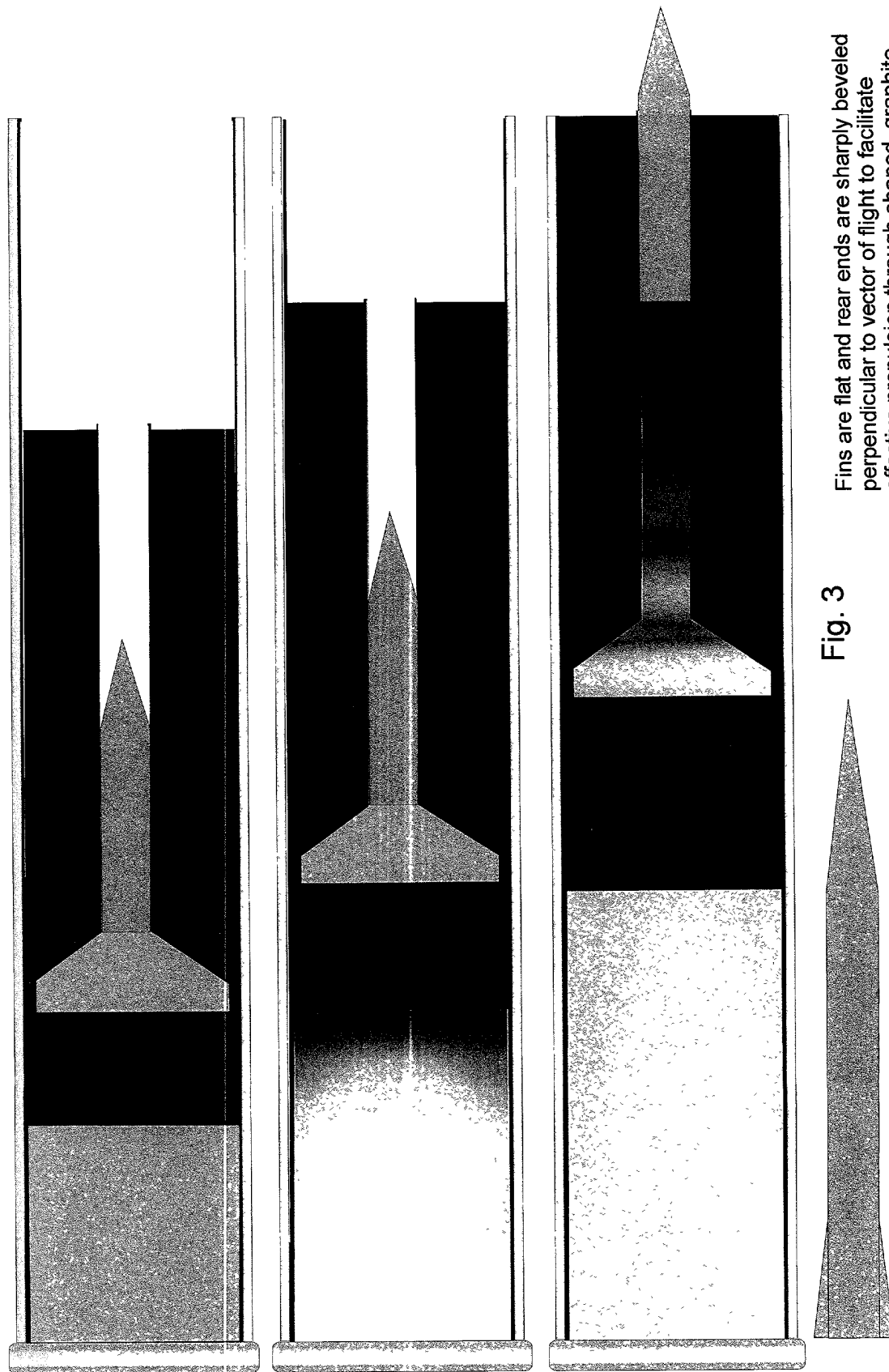


Fig. 3

Fins are flat and rear ends are sharply beveled perpendicular to vector of flight to facilitate effective propulsion through shaped, graphite treated fin-travel slits in Sabot.

Not drawn to scale or perspective.

Plug support shown as rotatable side bars
(not cylinder) for auto-ejecting captured Sabot.

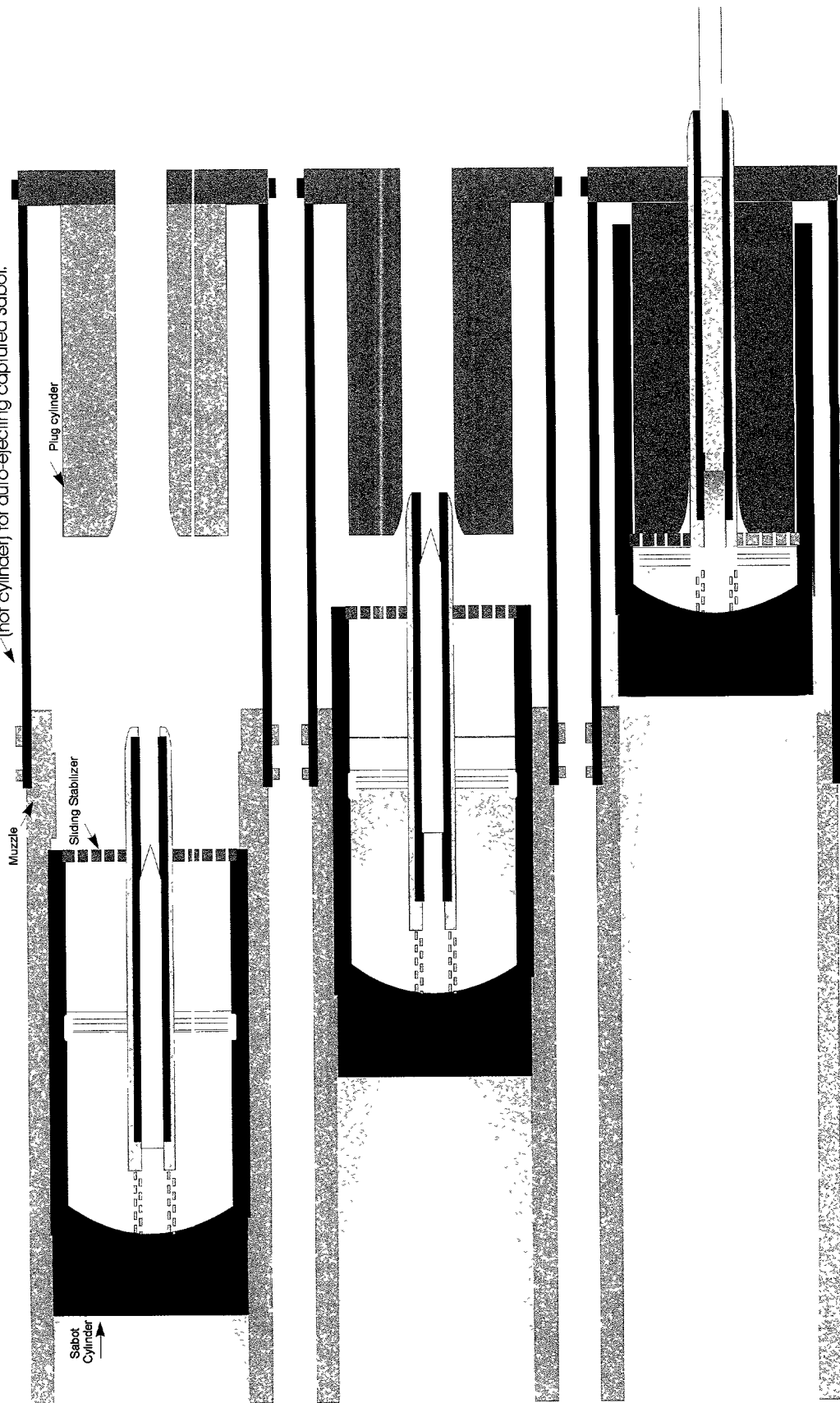


Fig. 4A

The image contains three cross-sectional diagrams of a projectile within a sabot, illustrating the sequence of events during impact and separation:

- Top Diagram:** Shows the initial state where the projectile is seated within the sabot. The sabot is a multi-layered cylindrical structure, and the projectile is a long, thin rod with a pointed tip.
- Middle Diagram:** Illustrates the hydraulic separation process. A fluid (indicated by a stippled pattern) has entered the space between the projectile and the sabot, creating a cushion that absorbs impact. The projectile is shown moving slightly forward, compressing the fluid.
- Bottom Diagram:** Shows the final state where the projectile has fully separated from the sabot. The fluid has been displaced, and the projectile is now free to travel forward, while the sabot remains in its original position.

Fig. 4B

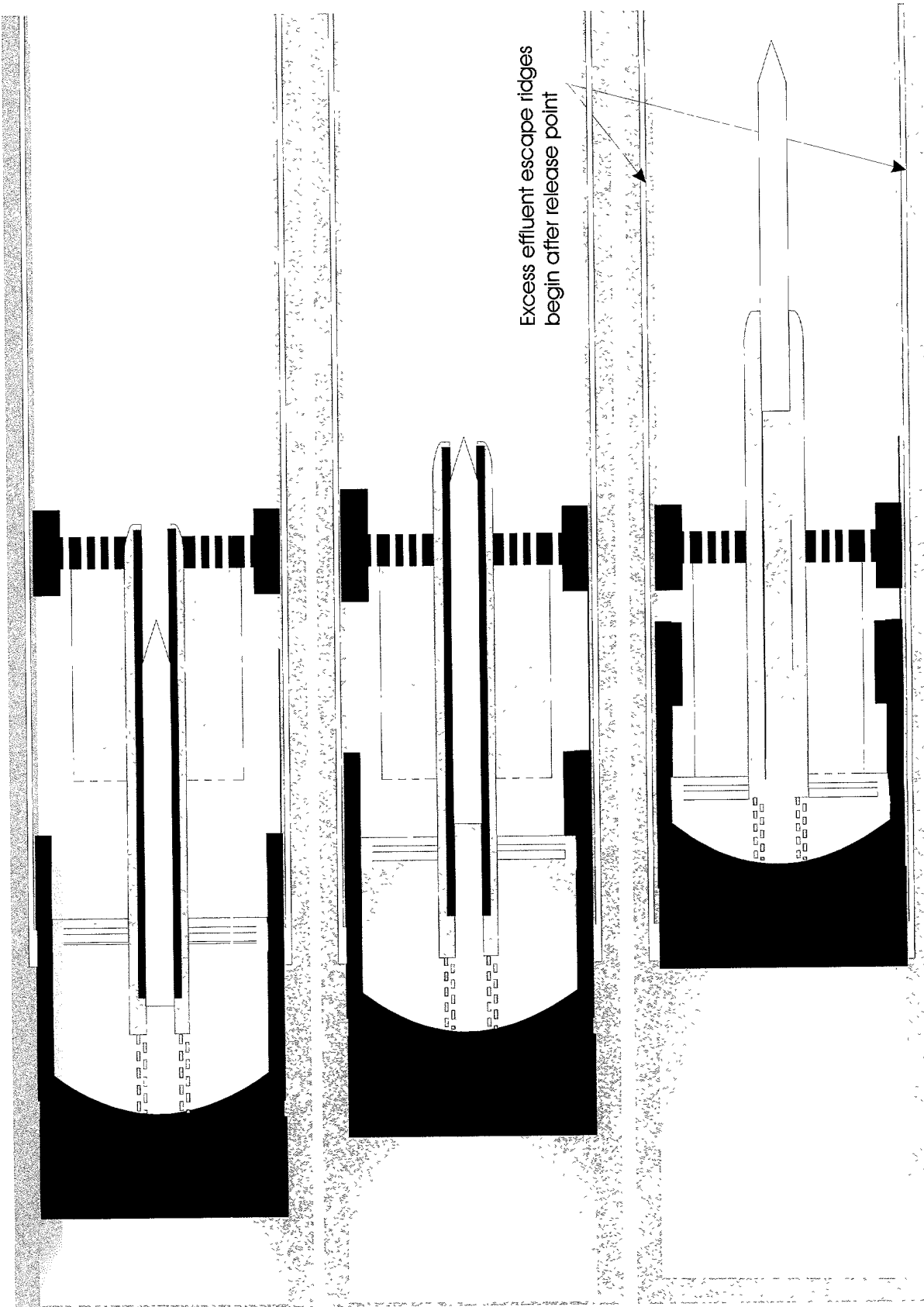


Fig. 4C

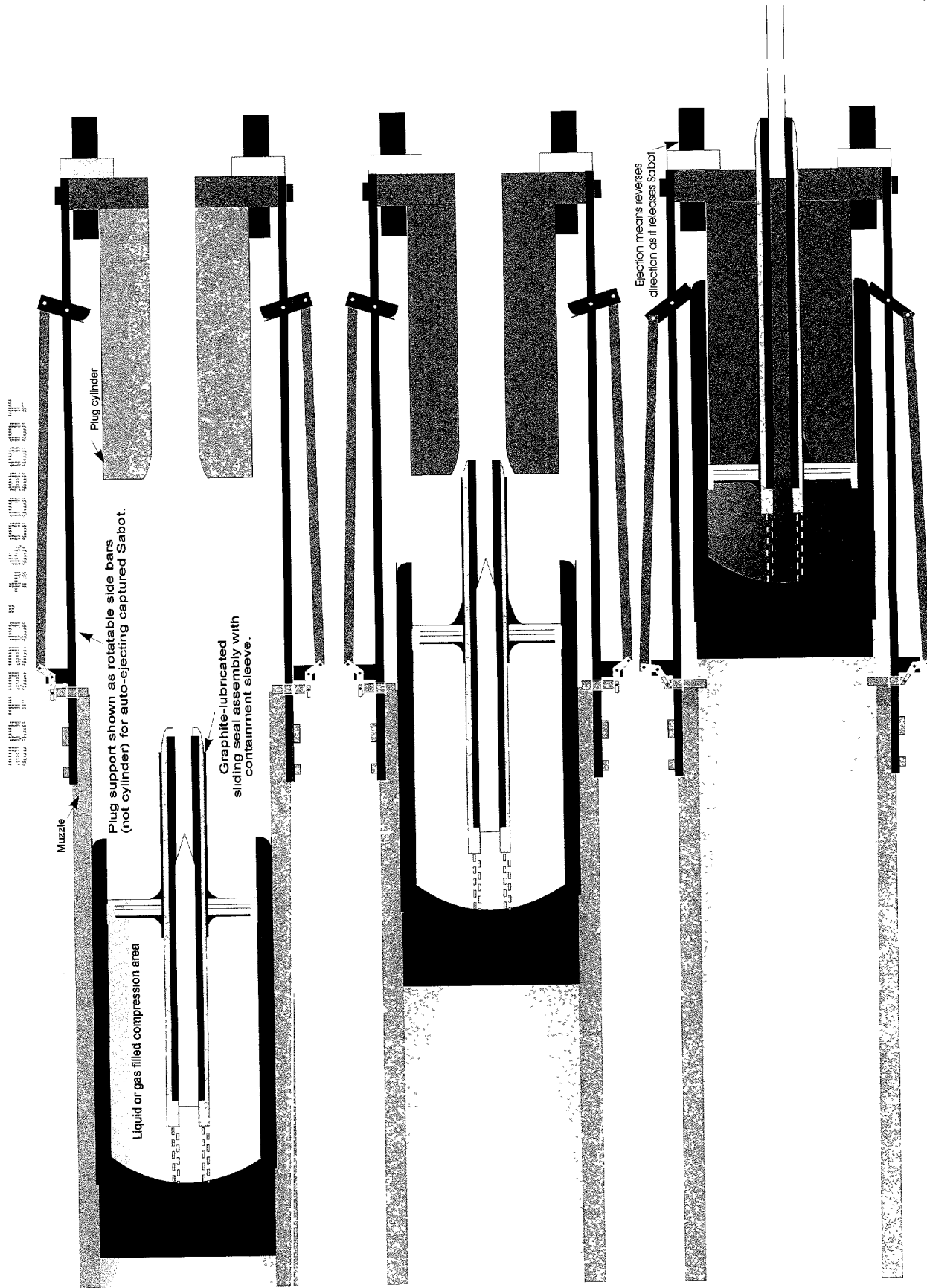


Fig. 4D

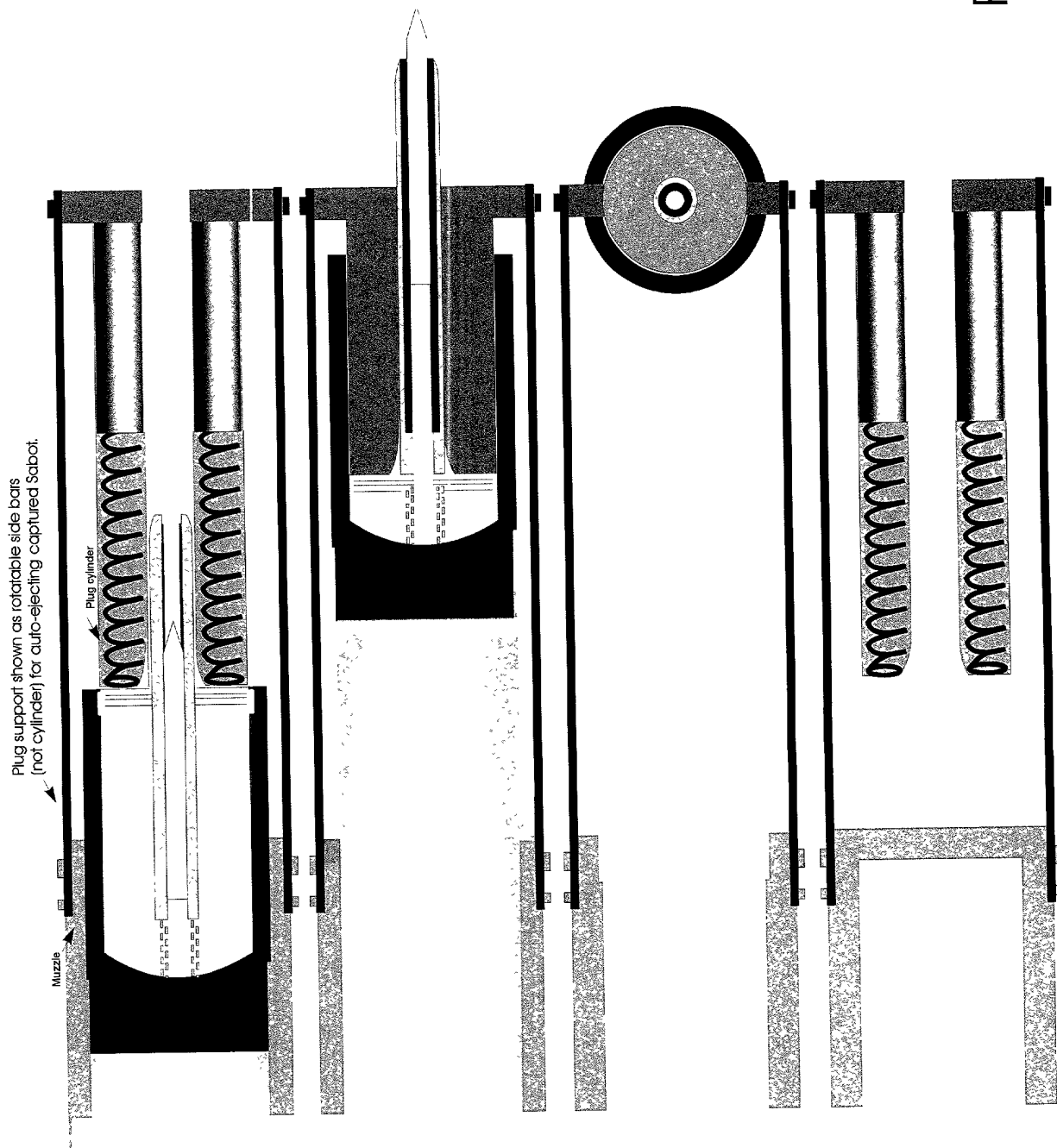


Fig. 4E

One Dense Matrix Example Distribution

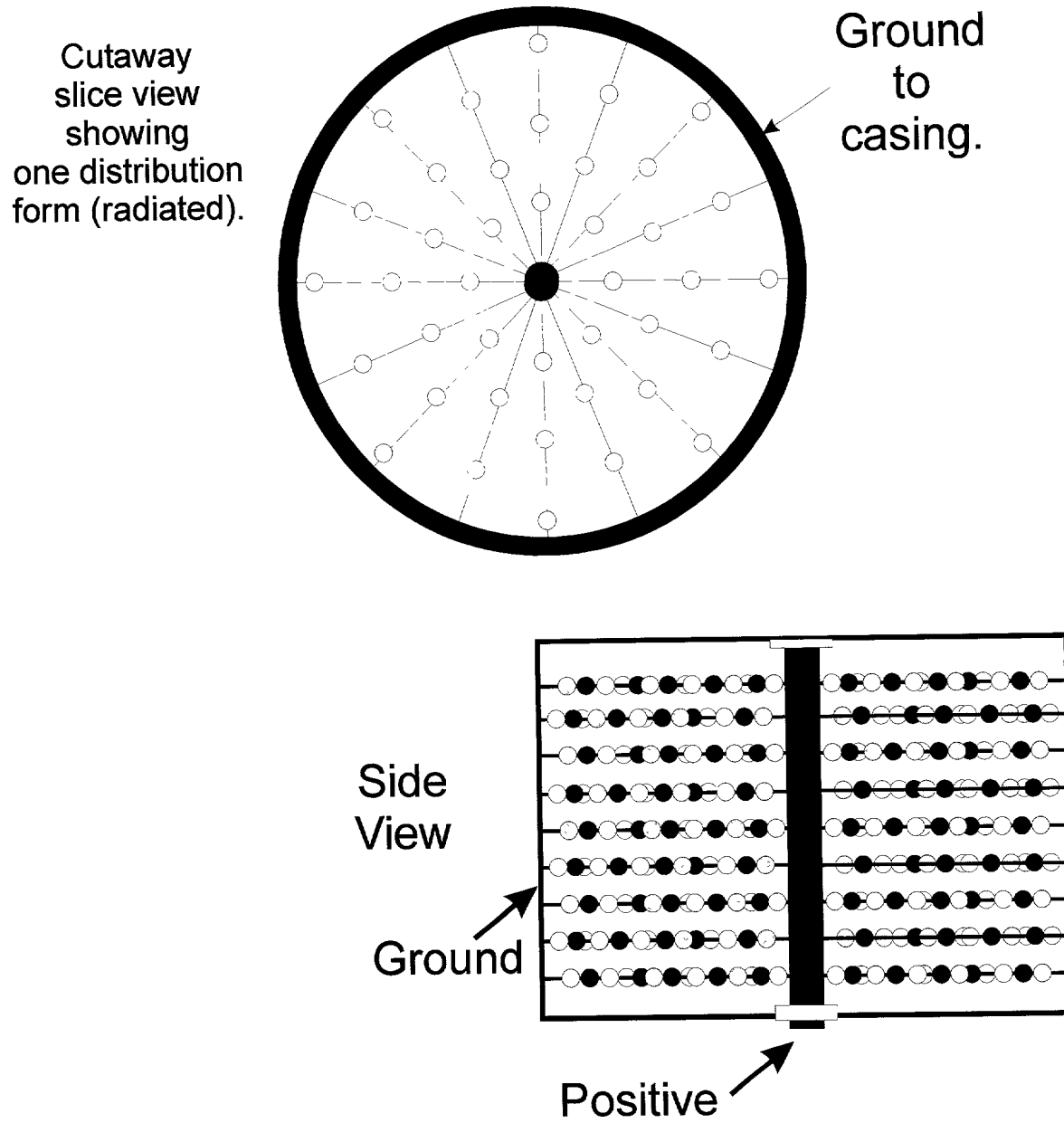


Fig. 5

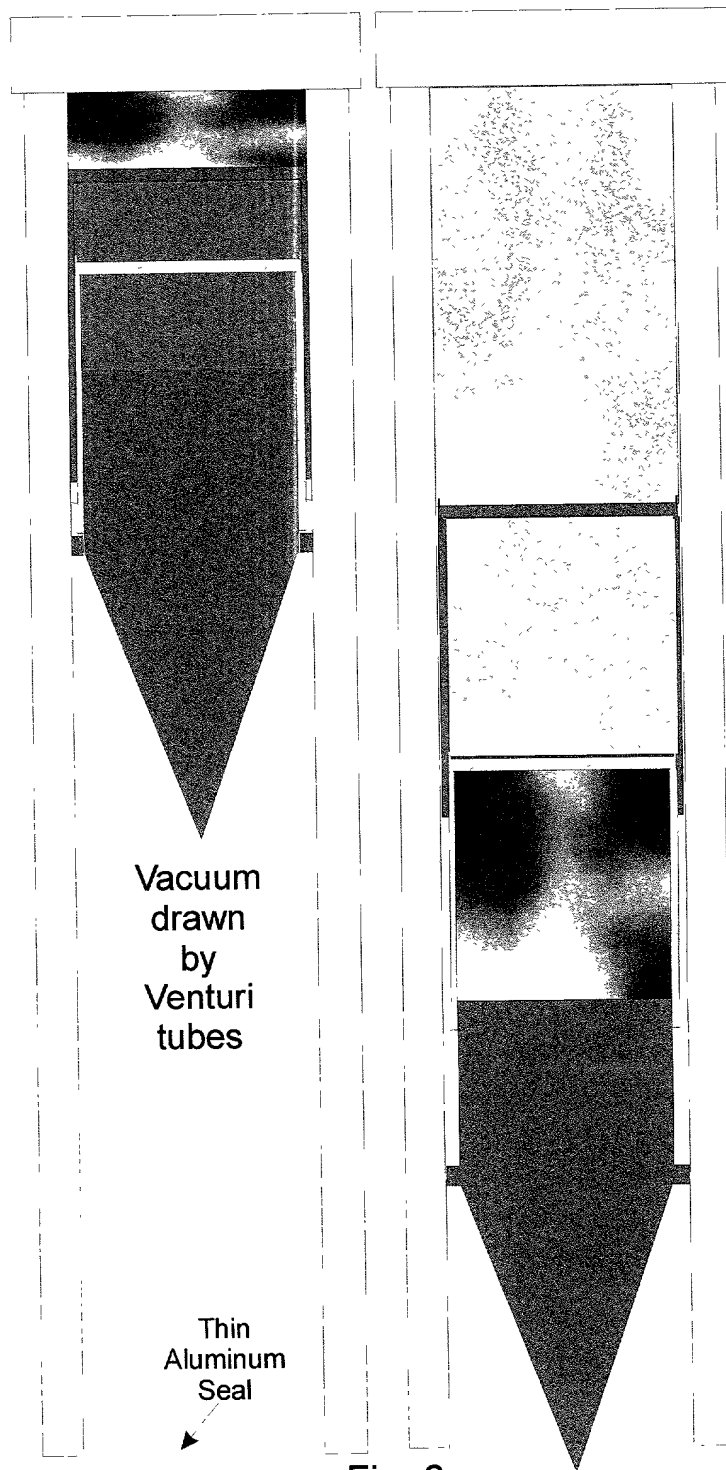


Fig. 6

Cutaway Drawings of Concentric Cylindrical Structure and Velocity Adding Sabot

Lateral staging and vacuum distances are substantially out of proportion to fit on page.

Front structural support disc connects to nose cover, and inside support cylinder. Nose has soft exit area at center.

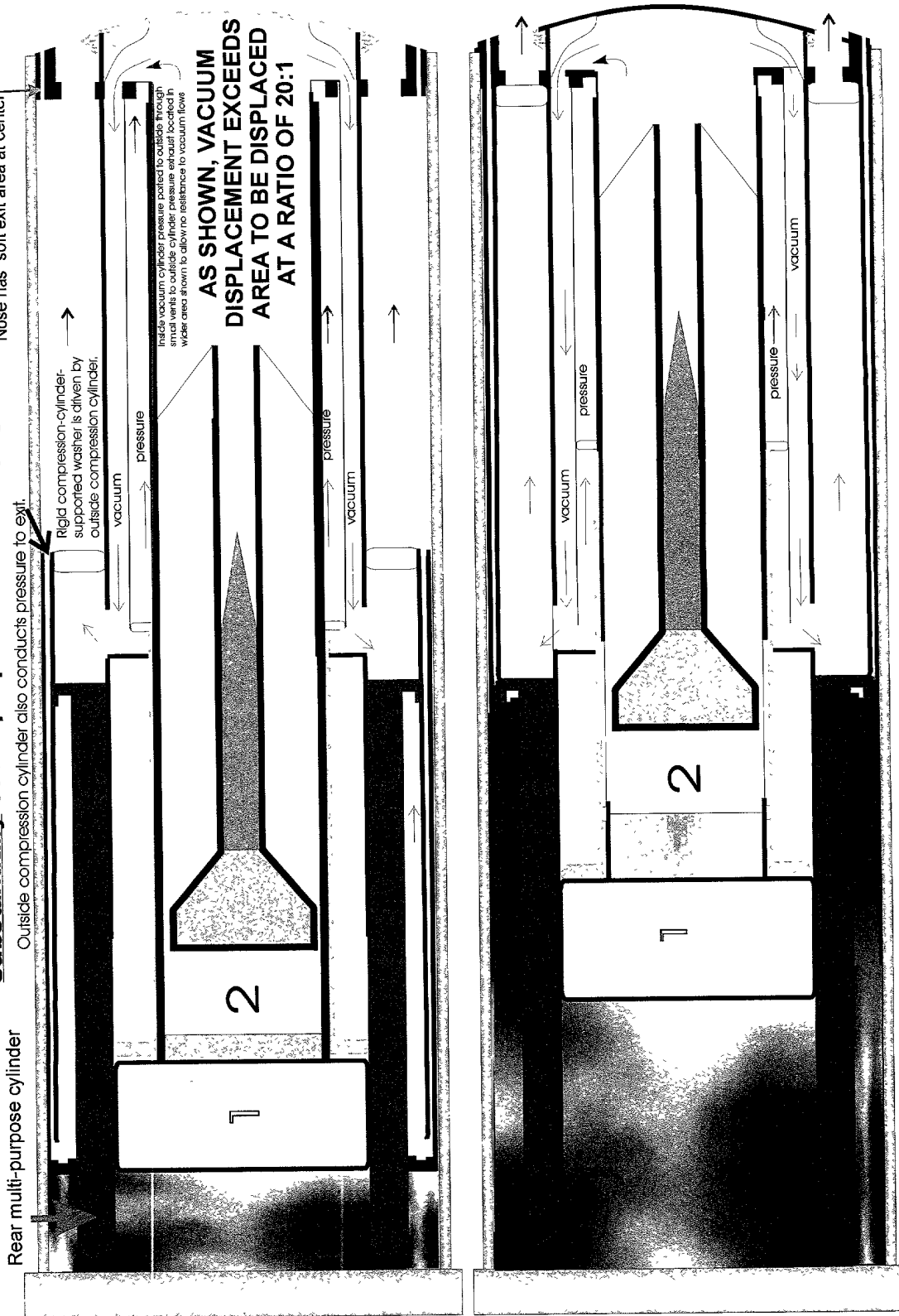


Fig. 7A

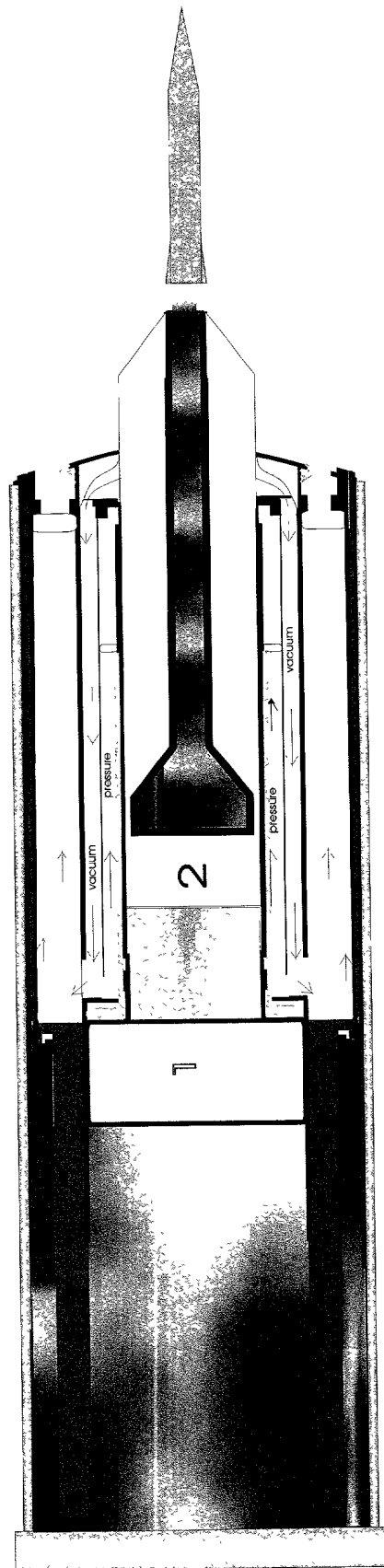


Fig. 7B

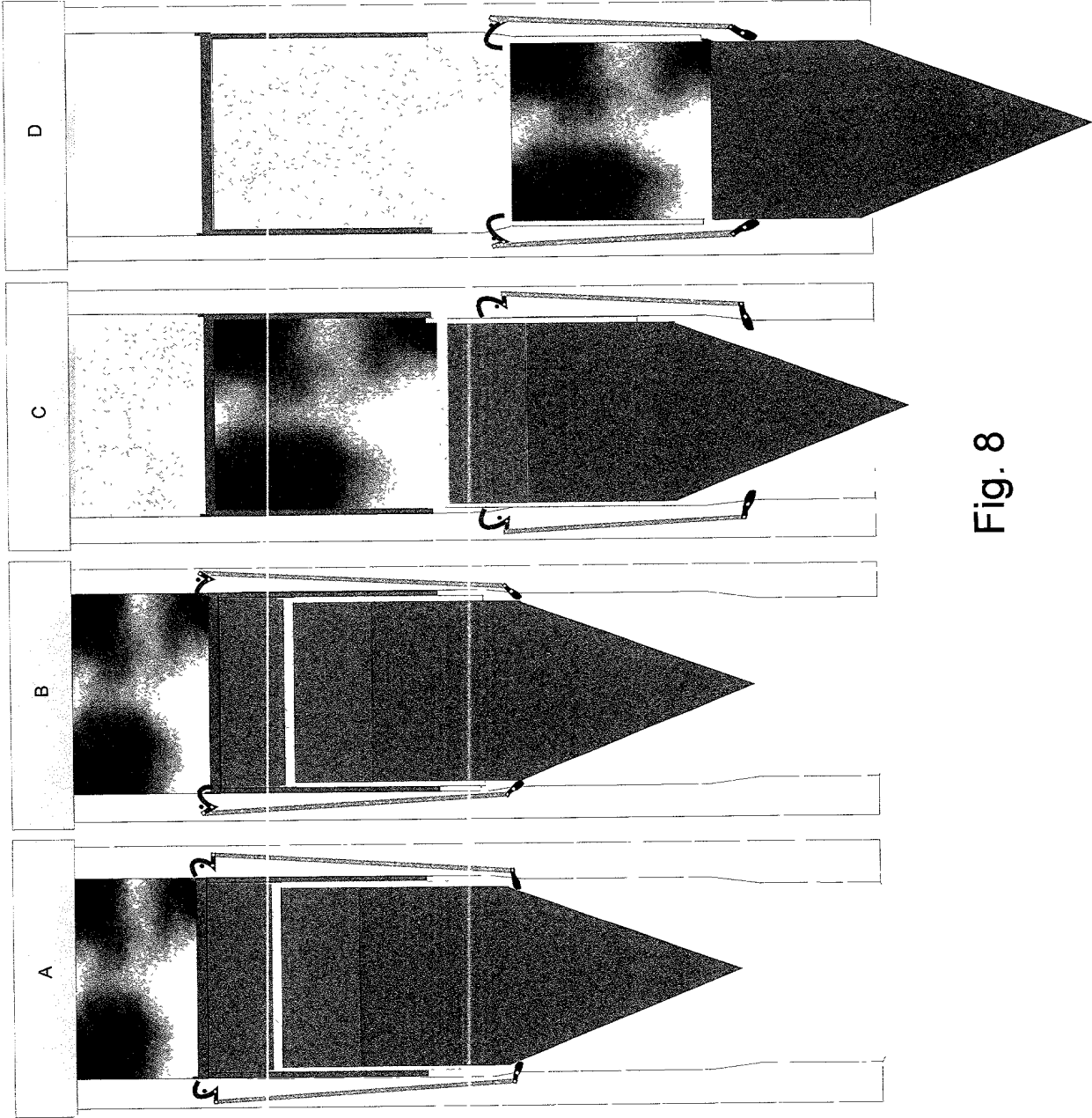


Fig. 8

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Upside down "U" shaped barrel

extension plus ejector assembly

Muzzle End

Side View

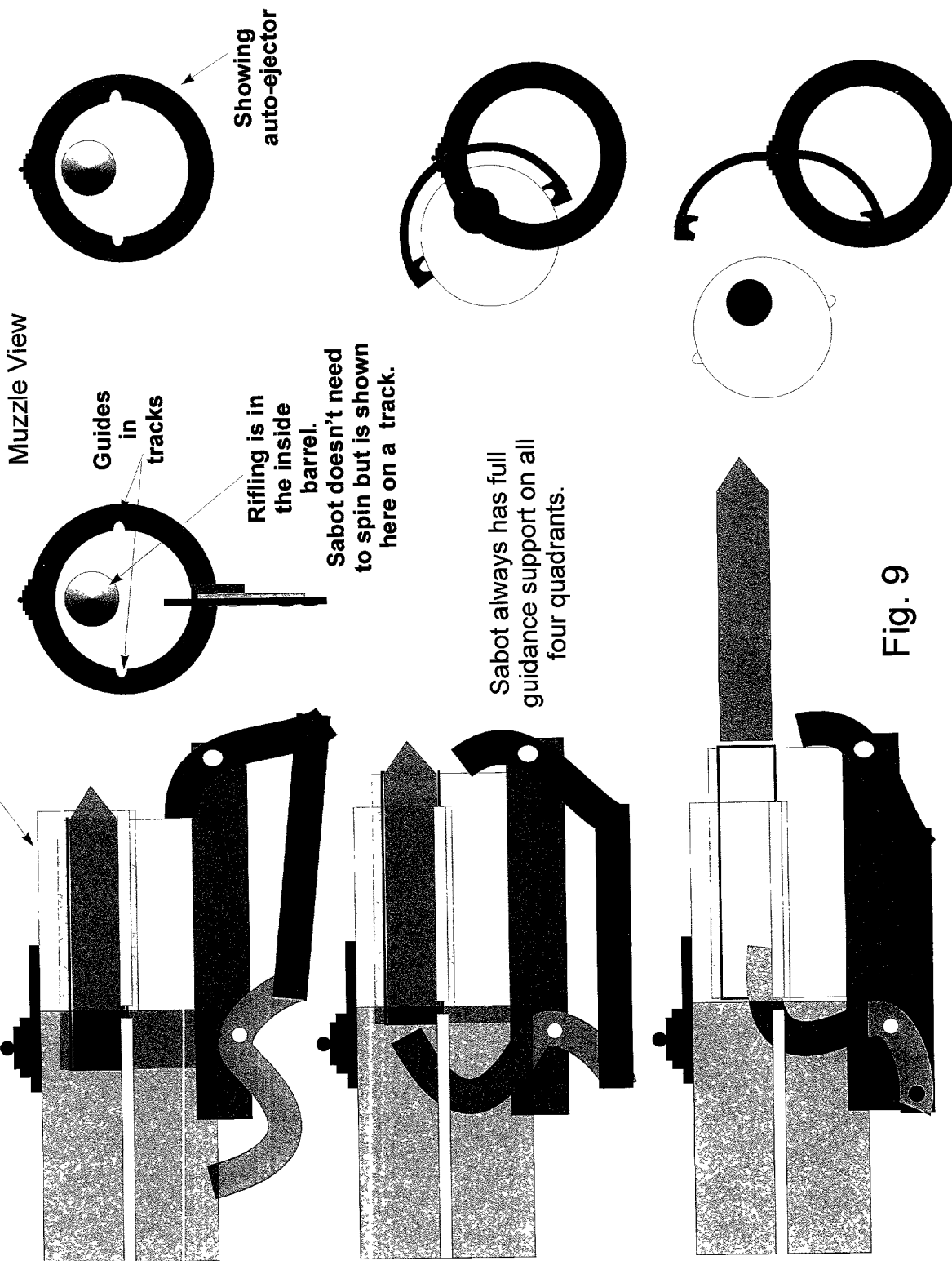


Fig. 9